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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/786,759	02/24/2004	Amir Abolfathi	AT-000220	2843
	7590 06/14/2007 TRAURIG LLP	EXAMINER		
1900 UNIVER	SITY AVE,	BUMGARNER, MELBA N		
FIFTH FLOOR EAST PALO, CA 94303			ART UNIT	PAPER NUMBER
			3732	
			<u> </u>	
			MAIL DATE	DELIVERY MODE
			06/14/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)				
	10/786,759	ABOLFATHI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Melba Bumgarner	3732				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 27 M	arch 2007.					
<u> </u>	action is non-final.					
·	3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>34-45</u> is/are pending in the application	1.					
4a) Of the above claim(s) <u>34-39</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>40-45</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r					
10)☐ The drawing(s) filed on is/are: a)☐ acce		- - - - - - -				
Applicant may not request that any objection to the						
· · ·	*	* *				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.						
		on No				
<u> </u>						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
occurre attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P					
Paper No(s)/Mail Date <u>3/27/07</u> . 6) Other:						

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DETAILED ACTION

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Election/Restrictions

1. This application contains claims 34-39 drawn to an invention nonelected with traverse in the reply filed on March 27, 2007. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 40-45 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Recitation of "the appliance" in claim 40, line 11 lacks sufficient antecedent basis.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 40-45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Truax et al. in view of Pavloskaia et al. and further in view of Mah et al. (2004/0009449). Truax et al. disclose a method for expanding a palatal arch of a patient comprising acquiring a digital (computerized optical) scan representing the mouth of the patient (column 5 line 44), fabricating a first portion 58 of a palatal arch expander and fabricating a second portion 60, the first and

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second portions each having a plurality of cavities capable of receiving posterior teeth and a palatal portion extending toward a centerline of the palate, the plurality of cavities to receive the posterior teeth, to secure the appliance, and to reposition teeth, coupling an expansion member between the first and second portions, placing the arch expander in the mouth, and adjusting the expansion member to vary the spacing between the first and second portions to expand the palatal arch and reposition teeth; however, they do not show digital imaging. Pavloskaia et al. teach a method for making dental appliances comprising digital visualization of dental scans. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the method of Truax et al. to include the step of Pavloskaia et al. in order to enhance the treatment of a patient by simplifying and improving making of an appliance as well as saving money and time as taught by Pavloskaia et al. Truax et al. and Pavloskaia et al. further do not show the expansion member comprising at least one elastic band and at least one holder. Mah et al. teach a palatal expander having expansion member comprising at least one elastic band 58 and at least one holder 54 (figure 1F) as well as the expansion member of Truax et al. (figure 9D). It would have been obvious to one of ordinary skill in the art at the time the invention was made to further modify the method to use the expansion member including the band and holder embodiment of Mah et al. as an alternative to the expansion member of screw of Mah et al. or Truax et al. Pavloskaia et al. show the appliance fabricated using stereolithography (column 12 line 24), and acquiring the scan comprising taking an impression of the patient's teeth, placing the impression in a scanner and generating a 3-D model (column 4 line 36), and compression of data associated with the 3-D model. It is known to one of ordinary skill in the art Art Unit: 3732

that the physical impression of the teeth of a patient is taken by the treating professional to whom the patient goes.

Response to Arguments

6. Applicant's arguments with respect to the rejected claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melba Bumgarner whose telephone number is 571-272-4709.
The examiner can normally be reached on Mon-Fri.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cris Rodriquez can be reached at 571-272-4964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Melba Bumgarner

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Primary Examiner